

The Urban District of Litherland.



# ANNUAL REPORTS

of the

Medical Officer of Health

and of the

Chief Sanitary Inspector

For the Year 1952.



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# THE URBAN DISTRICT COUNCIL OF LITHERLAND

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**YEAR 1952**

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**Chairman of the Council:**

COUNCILLOR R. RYDER, J.P.

**Chairman of the Health Committee:**

COUNCILLOR W. WALL, J.P.

**Deputy Chairman of the Health Committee :**

COUNCILLOR E. B. FORRESTER

**Health Committee:**

H. BELL	R. F. MITCHELL
F. S. DUTSON	C. J. SMITH
E. FORRESTER	W. WALL, J.P.
R. RYDER, J.P. <i>Ex Officio</i>	E. F. WILLIAMS

**Medical Officer of Health:**

J. G. HAILWOOD, M.D., Ch.B., M.R.C.S., L.R.C.P., D.P.H.

**Assistant Divisional Medical Officer of Health:**

H. W. RUTHERFORD, M.B., Ch.B., D.P.H. up to September 1952

R. E. JONES, M.B., Ch.B. from October, 1952.

Lancashire County Council.

**Sanitary Inspectors:**

H. HARRISON, F.R.San.I., F.S.I.A., (Chief)

J. E. SHEEN, A.R.San.I., M.S.I.A.

# THE URBAN DISTRICT COUNCIL OF LITHERLAND

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TOWN HALL,  
LITHERLAND,  
LIVERPOOL, 21.  
*August, 1953.*

*To* THE CHAIRMAN AND MEMBERS  
OF THE HEALTH COMMITTEE.

LADY/GENTLEMEN,

I have pleasure in submitting herewith my Annual Report on the health and sanitary conditions of the district for the year ending 31st December, 1952.

I would like to comment on one or two facts which have emerged and which I think are worthy of note.

The infant mortality rate in Litherland in 1952 decreased to 24 infant deaths per 1,000 live births as opposed to 30 infant deaths per 1,000 live births in 1951.

There was not a single case of diphtheria notified during the year and no deaths from scarlet fever or whooping cough, and only one death from measles during 1952.

The number of notifications of pulmonary tuberculosis during the year was 48, this was fourteen higher than the previous year. The notification rate of Pulmonary Tuberculosis has fluctuated over the past few years, and there has been no downward trend as has been seen in the non-Pulmonary rate.

Improved housing and the relief of overcrowding will certainly reduce the number of cases of tuberculosis in the district.

I wish to take this opportunity of thanking the Staff of the Department for their help and the members of the Health Committee for their sustained interest in the health of the district.

I am,

Your obedient servant,

J. G. HAILWOOD,  
*Medical Officer of Health.*



PARTICULARS TO BE INCLUDED IN THE  
ANNUAL REPORT OF THE MEDICAL OFFICER OF  
HEALTH FOR THE YEAR 1952.

**1.—Statistics and Social Conditions of the Area.**

Area in acres	...	...	...	...	...	...	818
Population—Census, 1951	...	...	...	...	...	...	22,197
—Estimated, Mid 1952			...	...	...	...	22,410
No. of inhabited houses (Census, 1951)	...	...	...	...	...	...	5,858
No. of inhabited houses on Rate Books, Dec. 1952					...	...	5,910
Rateable Value	...	...	...	...	...	...	£134,245
General Rate, 1951/52	...	...	...	...	...	...	20/10d.
Sum represented by a penny rate	...	...	...	...	...	...	£530

There is no special report to make on the influence of any particular occupation on public health.

UNEMPLOYMENT.—There are no separate figures at the Labour Exchange as to the extent of the unemployment in the district.

### BIRTHS.

The number of children born in the district during 1952 was 381; 180 males and 201 females. This gives a Birth Rate of 17.0, adjusted 14.8.

### DEATHS.

The total number of deaths during the year 1952 was 197; 117 males and 80 females. This gives a crude Death Rate of 8.8, adjusted 10.8. 98 deaths of Litherland residents occurred outside the district.

## INFANTILE MORTALITY

During the year 9 children died who, at the time of their death, had not reached the age of one year.

### ZYMOTIC DEATHS.

During the year, there were no deaths from Whooping Cough, no deaths from Diphtheria, one death from Measles, and no deaths from Meningococcal infection.

### VITAL STATISTICS.

Home population—Registrar General's estimate, mid 1952, 22,410

### COMPARABILITY FACTORS.

Births ... 0.87

Deaths ... 1.23

#### Live Births—

#### Still Births—

		M.	F.			M.	F.
Total	...	180	201	Total	...	2	2
Legitimate	...	174	192	Legitimate	...	2	2
Illegitimate	...	6	9	Illegitimate	...	—	—

#### Deaths of Infants under one year year of age—

#### Deaths of Infants under four weeks of age—

		M.	F.			M.	F.
Total	...	9	—	Total	...	6	—
Legitimate	...	9	—	Legitimate	...	6	—
Illegitimate	...	—	—	Illegitimate	...	—	—



# LUTHERLAND U.D.C.

Year	Live Births.		Deaths (all causes).		Stillbirths.		Maternal Mortality.		Infant Mortality.		Neo-Natal.
	No. regis-tered.	Rate per 1,000 popula-tion.	No. regis-tered.	Rate per 1,000 popula-tion.	No. regis-tered.	Rate per 1,000 total births.	No. of deaths regis-tered.	Rate per 1,000 total births.	Rate per 1,000 live births.	No. of deaths regis-tered.	Rate per 1,000 live births.
1952 ...	381	*17.0	197	*8.8	4	10	Nil	Nil	24	6	16
" 1951 ...	395	*17.8	240	*10.8	7	17	Nil	Nil	30	8	20
" 1950 ...	421	18.4	217	9.5	10	23	Nil	Nil	19	3...	7
" 1948 ...	440	19.6	209	9.3	7	16	Nil	Nil	45	—	—
" 1948 ...	472	21.3	207	9.3	7	14	1	2.08	36	—	—
" 1947 ...	557	27.0	232	11.2	10	17	1	1.76	59	—	—

\*Adjusted—Live birth-rate (comparability factor, 0.87) — 14.8 per 1,000.

Death-rate (comparability factor, 1.23) — 10.8 per 1,000.

Age at date of Inoculation	17 1935	16 1936	15 1937	14 1938	13 1939	12 1940	11 1941	10 1942	9 1943	8 1944	7 1945	6 1946	5 1947	4 1948	3 1949	2 1950	1 1951	Under 1 1952	Total
Under 1 year	—	—	—	—	—	1	1	—	23	7	2	2	168	17	134	148	150	121	
1-2 years	11	6	2	5	9	14	44	118	144	115	209	189	118	262	181	108	137	98	
2-3 "	21	5	9	10	6	21	37	96	51	23	31	41	37	32	11	29	17	18	under five years 1186
3-4 "	22	9	8	1	11	23	30	86	55	10	20	15	12	7	11	17	18	6	
4-5 "	30	10	12	16	10	26	31	63	59	7	11	9	7	10	10	10	13	4	
5-6 "	47	38	29	30	31	63	59	55	35	5	19	2	5	6	12	44	38	16	
6-7 "	51	17	16	29	14	35	41	46	38	1	19	11	3	8	11	41	28	17	5-10 years 1658
7-8 "	41	24	14	13	10	11	27	22	30	7	12	2	—	2	13	30	16	4	
8-9 "	40	40	9	9	16	16	24	14	25	6	8	3	2	1	10	28	34	—	
9-10 "	36	31	18	12	12	9	19	16	24	3	7	2	—	—	12	23	27	2	
10-11 "	55	41	9	8	9	11	21	9	25	8	5	5	1	1	7	23	15	5	
11-12 "	30	37	9	3	4	6	18	8	9	2	8	4	—	—	—	13	24	1	10-15 years 1449
12-13 "	21	21	4	4	2	9	9	13	8	1	2	7	1	—	—	3	11	—	
13-14 "	11	14	7	6	1	9	8	1	8	1	1	3	—	—	—	5	8	—	
14-15 "	—	1	—	—	—	—	1	—	—	—	—	1	—	—	—	3	5	—	
15 yrs & over	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	2	2	1	Over 15 years 1871
Agenotknown	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Totals	416	294	146	146	135	255	370	547	534	196	354	296	354	346	412	527	543	293	6164

## CAUSES OF DEATH IN LITHERLAND URBAN DISTRICT, 1952.

<i>Causes of Death.</i>						<i>M.</i>		<i>F.</i>
						117	—	80
1.	Tuberculosis, respiratory	...	...	...	...	9	...	3
2.	Other Tuberculosis Diseases	...	...	...	...	1	...	1
3.	Syphilitic disease	...	...	...	...	—	...	—
4.	Diphtheria	...	...	...	...	—	...	—
5.	Whooping cough	...	...	...	...	—	...	—
6.	Meningococcal infections	...	...	...	...	—	...	—
7.	Acute poliomyelitis	...	...	...	...	—	...	—
8.	Measles	...	...	...	...	—	...	1
9.	Other infective and parasitic diseases	...	...	...	...	—	...	—
10.	Malignant neoplasm, stomach	...	...	...	...	1	...	4
11.	Malignant neoplasm, lung bronchus	...	...	...	...	9	...	1
12.	Malignant neoplasm, breast	...	...	...	...	—	...	2
13.	Malignant neoplasm, uterus	...	...	...	...	—	...	—
14.	Other malignant and lymphatic neoplasms	...	...	...	...	10	...	7
15.	Leukaemia, Aleukaemia	...	...	...	...	—	...	1
16.	Diabetes	...	...	...	...	—	...	—
17.	Vascular lesions of nervous system	...	...	...	...	11	...	10
18.	Coronary diseases, angina	...	...	...	...	18	...	7
19.	Hypertension, with heart disease	...	...	...	...	2	...	2
20.	Other heart disease	...	...	...	...	10	...	23
21.	Other circulatory disease	...	...	...	...	7	...	4
22.	Influenza	...	...	...	...	—	...	—
23.	Pneumonia	...	...	...	...	7	...	4
24.	Bronchitis	...	...	...	...	7	...	6
25.	Other diseases of respiratory system	...	...	...	...	—	...	—
26.	Ulcer of stomach and duodenum	...	...	...	...	1	...	—
27.	Gastritis, enteritis and diarrhoea	...	...	...	...	2	...	—
28.	Nephritis and nephrosis	...	...	...	...	—	...	—
29.	Hyperplasia of prostate	...	...	...	...	2	...	—
30.	Pregnancy, childbirth and abortion...	...	...	...	...	—	...	—
31.	Congenital malformations	...	...	...	...	1	...	—
32.	Other defined and ill-defined diseases	...	...	...	...	13	...	4
33.	Motor vehicle accidents	...	...	...	...	2	...	—
34.	All other accidents...	...	...	...	...	2	...	—
35.	Suicide	...	...	...	...	2	...	—
36.	Homicide and operations of war	...	...	...	...	—	...	—
All causes						117	...	80

Birth Rates, Death Rates, Analysis of Mortality, Maternal Mortality, and Case Rates for certain Infectious Diseases in the Year 951

(Provisional Figures based on Quarterly Returns.)

	England and Wales.	160 County Boroughs and Great Towns, including London.	160 Smaller Towns (Resident Populations 25,000 to 50,000 at 1931 Census).	London. Adminis- trative County.
Rates per 1,000 Home Population.				
<b>Births—</b>				
Live Births ... ..	15.3	16.9	15.5	17.6
Still Births ... ..	0.35	0.43	0.36	0.34
	22.6 (a)	24.6 (a)	23.0 (a)	19.2 (a)
<b>Deaths—</b>				
All Causes ... ..	11.3	12.1	11.2	12.6
Typhoid & Paratyphoid	0.00	0.00	0.00	—
Whooping Cough ... ..	0.00	0.00	0.00	0.00
Diphtheria ... ..	0.00	0.00	0.00	0.00
Tuberculosis ... ..	0.24	0.28	0.22	0.31
Influenza ... ..	0.04	0.04	0.04	0.05
Smallpox... ..	0.00	—	—	—
Acute Poliomyelitis (in- cluding Polioencephalitis)	0.01	0.01	0.00	0.01
Pneumonia ... ..	0.47	0.52	0.43	0.58
<b>Notifications—(Corrected)</b>				
Typhoid Fever ... ..	0.00	0.00	0.00	0.00
Paratyphoid Fever ... ..	0.02	0.02	0.03	0.01
Meningococcal Infection	0.03	0.03	0.03	0.02
Scarlet Fever ... ..	1.53	1.75	1.58	1.56
Whooping Cough ... ..	2.61	2.74	2.57	1.66
Diphtheria ... ..	0.01	0.01	0.03	0.01
Erysipelas ... ..	0.14	0.15	0.12	0.14
Smallpox... ..	0.00	0.00	0.00	—
Measles ... ..	8.86	10.11	8.49	9.23
Pneumonia ... ..	0.72	0.80	0.62	0.57
Acute Poliomyelitis (in- cluding Polioencephalitis)				
Paralytic ... ..	0.06	0.06	0.06	0.06
Non-Paralytic ... ..	0.03	0.03	0.02	0.03
Food Poisoning ... ..	0.13	0.16	0.11	0.18
Puerperal pyrexia ... ..	17.87 (a)	23.94 (a)	10.22 (a)	30.77 (a)
<b>Deaths—All causes</b>		Rates per 1000 Live Births		
under 1 year of age ..	27.6 (b)	31.2	25.8	23.8
Enteritis and Diarrhoea under 2 years of age ...	1.1	1.3	0.5	0.7

Maternal Mortality in England and Wales.

Intermediate List No. and cause	Number of Deaths	Rates per 1,000 Total (Live and Still) Births	Rates per million women aged 15-44
A115 Sepsis of pregnancy, childbirth and the puerperium... ..	61	0.09	1
Abortion with toxæmia ... ..	13	0.02	
A116 Other toxæmias of pregnancy and the puerperium... ..	147	0.21	3
A117 Haemorrhage of pregnancy and childbirth...	59	0.09	
A118 Abortion without mention of sepsis or toxæmia ... ..	31	0.04	5
A119 Abortion with sepsis ... ..	47	0.07	
A120 Other complications of pregnancy, child- birth and the puerperium ... ..	138	0.20	

(a) Per 1,000 Total (Live and Still) Births.  
(b) Per 1,000 related live births.



## 2.—General Provision of Health Services for the Area.

### HOSPITALS.

There are no hospitals in the district. Infectious diseases are admitted to Hospitals in Liverpool. General Medical and General Surgical cases are removed to the General Hospitals of Liverpool, Bootle, Waterloo and Alder Hey. Children are admitted to the Liverpool Childrens Hospital also to Alder Hey Hospital.

### TUBERCULOSIS.

This work is administered by the Liverpool Regional Hospital Board, the Tuberculosis Dispensary being situated at "Ellesmere," Crosby Road North, Waterloo. Home visiting of patients is carried out by nurses under the supervision of the Lancashire County Council, working from the above Dispensary.

### VENEREAL DISEASES.

Patients make their own arrangements with the Liverpool Hospitals.

### MATERNITY.

There is no Maternity Hospital in the district, but the Liverpool and Ormskirk Hospitals are available.

### MIDWIVES.

There are three Midwives on the County Council Register and practising in the district. There are no Health Visitors, Nurses or Midwives employed by or assisted by the Local Authority.

### MATERNITY MORTALITY.

No special arrangements have been made for the investigation of maternal deaths, and cases of Puerperal Fever or Puerperal Pyrexia; this work is carried out by the Lancashire County Council.

### NATIONAL ASSISTANCE ACT, 1948.

No action has been necessary under the above Act during the year.

## CLINIC AND TREATMENT CENTRES.

This work is administered by the Lancashire County Council. The Clinics are situated at 32 Linacre Road and Sefton Avenue, Litherland, and provide for:—

MATERNITY AND CHILD WELFARE	Sefton Avenue, Litherland.
ANTE-NATAL      ...      ...      ...	Sefton Avenue, Litherland.

## SCHOOL CLINICS—

Dental      ...      ...      ...	32 Linacre Road, Litherland.
Ophthalmic ...      ...      ...	32 Linacre Road, Litherland.
Minor Ailments      ...      ...	32 Linacre Road, Litherland.
Orthopaedic      ...      ...	Sefton Avenue, Litherland.
Speech Therapy      ...      ...	Sefton Avenue, Litherland.

A Day Nursery was opened on April 10th, 1943, to accommodate 50 children. It has proved a success and met a wartime need of some urgency. Consequently, an extension was opened on the 21st June, 1944, for 40 children. The Nursery is open from Monday to Friday 7 a.m. to 7 p.m., and on Saturday from 7 a.m. to 1 p.m. Children of the age of 12 months to 5 years are accepted. This nursery is administered by the County Council.

## PROFESSIONAL NURSING IN THE HOME.

Two District Nurses visit on request of the Medical Practitioners by arrangement. This service is administered by the County Council.

## DOMESTIC HELP SERVICE.

This service is administered by the County Council, and Home Helps can be obtained in cases of illness on application to the Divisional Medical Officer or through the Litherland Health Department.

## AMBULANCE FACILITIES.

Ambulance Services are provided by the Lancashire County Council from Depots in Crosby and Ormskirk.

## PATHOLOGICAL AND BACTERIOLOGICAL EXAMINATIONS.

Sputum.—These specimens are sent direct to Lancashire County Council Tuberculosis Dispensary, by Medical Practitioners.

Blood, Throat Swabs, etc.—Sent direct by Medical Practitioners to Liverpool University, Bacteriological Department.

Milk.—Ten samples were submitted to Liverpool University, also 12 samples of Ice Cream.



### 3.—Sanitary Circumstances of the Area.

#### WATER SUPPLY.

The water supply is obtained from the City of Liverpool; the chief source is Lake Vyrnwy in Wales. The water is excellent in quality, and there is a constant supply for all purposes. The number of houses supplied direct from the public mains is approximately 5,910. There has been no analysis during the year this work is carried out by Liverpool Corporation. Complaints of discolouration and sediment were reported to Liverpool Corporation and received prompt attention. The whole of the dwelling-houses are supplied from the public water mains direct to the houses.

#### DRAINAGE AND SEWAGE.

The sewage (which is dealt with on the combined system) is discharged without treatment into the River Mersey.

The second portion of the Rimrose Brook Drainage Scheme now in progress, when completed, should remove flooding in the lower lying part of the district.

#### RIVERS AND STREAMS.

No action has been necessary to check pollution of rivers and streams and no new works have been established to cause pollution.

Closet accommodation at the end of 1952:—

No. of Houses on the Water carriage system	...	...	5,910
--	-----	-----	-------

#### SCAVENGING.

This work was transferred during 1942 from the Surveyor's Department to the Sanitary Department, under the supervision of the Chief Sanitary Inspector, and is working satisfactorily. Refuse is conveyed by motor vehicles to the Council's tips, situated in Beach Road, Litherland. The fleet comprises two "Paxit" and one "Low Loader."

## SANITARY INSPECTIONS DURING 1952.

No. of premises visited	...	...	...	...	2,192
Defects or Nuisances—					
No. discovered	...	...	...	...	4,073
No. abated	...	...	...	...	3,949
No. of Notices served—					
Informal	...	...	...	...	1,887
Abatement	...	...	...	...	Nil
Legal Proceedings	...	...	...	...	Nil

## OFFICES AND SHOPS ACT, 1950.

No statutory action has been necessary; sanitary defects, etc., have been carried out as required.

## CAMPING SITES.

There were no licences issued for camping sites during the year.

## SWIMMING BATHS AND POOLS.

There are no Swimming Baths or Pools within the District.

## ERADICATION OF BED BUGS.

Twenty-three houses were disinfested during the year; 2 Council houses and 21 other houses, by means of spraying with D.D.T. in Zaldecide and sulphur candles. One Hundred and Thirty-one houses were disinfested for cockroaches, fleas, ants, earwigs, and woodworm.

Complaints of snails in the back passages between the houses were treated with salt satisfactorily.

## SCHOOLS.

The sanitary condition and the water supply of the schools in the district is generally satisfactory. The schools have been disinfested after the holidays. There was no closing of schools as a result of infection during the year. Two new schools are in progress.

## PREMISES AND OCCUPATIONS WHICH CAN BE CONTROLLED BY BYE-LAWS OR REGULATIONS.

There are no Common Lodging Houses; Houses let in Lodgings; Tents, Vans or Sheds, or Underground Sleeping Rooms in the district.

## OFFENSIVE TRADES.

There are three Tanneries and ten Fish and Chip Potato premises in the district; these are inspected from time to time.

## SLAUGHTER-HOUSES.

There is only one Private Slaughter-house in the district. and this is a Registered Slaughter-house.

## THE RAG FLOCK AND OTHER FILLING MATERIALS ACT, 1951.

There are no premises in the district in which Rag Flock is manufactured or sold.

## CANAL BOATS.

There are no canal boats used as permanent residences in the district.

### 4.—Housing.

#### STATISTICS FOR THE YEAR 1951.

There were 36 flats built during the year by the Council, and 17 permanent houses by other bodies.

#### HOUSING APPLICATION FORMS, 1952.

Housing Application Forms for Council houses are continually being received, both from inside and outside the district.

The number of dwelling houses overcrowded at the end of the year was approximately 679, the number of new cases of overcrowding reported during the year was 62, and 55 cases of overcrowding have been relieved during the year. Eleven cases of overcrowding in houses owned by the Council have been relieved during the year. There is still a serious shortage of houses for all classes of people in the district.

### 5.—Inspection and Supervision of Food.

#### MILK SUPPLY.

The Dairies and Milk Shops within the district are periodically inspected.

Ten samples were obtained from persons selling milk within the district, and sent for Bacteriological examination.

#### FOOD AND DRUGS ACT, 1938/1950.

Ten samples of milk were submitted to the County Analyst; all samples were reported genuine.

The following 118 samples were obtained in Litherland by the County Sanitary Officer during the year:—

Milk, 87; Butter, 2; Margarine, 1; Cooking Fat, 2; Pork Sausage, 1; Cheese, 2; Baking Powder, 3; Flour, Selfraising, 2; Sugar, 1; Milk condensed, sweetened, skimmed, 1; Breakfast Oats, 2; Icing Sugar, 1; Ice Cream, 3; Ice Lollies, 1; Glycerine, 1; Arrowroot, 1; Flour, 1; Coffee, and chicory essence liquid, 3; Fish Paste, 2; Sodium bicarbonate, 1.



All the above samples were certified by the County Analyst to be genuine, with the exception of the following:—

<i>Sample</i>	<i>Result of Analysis</i>	<i>Action taken</i>
1 Glycerine	Contained 0.8 % extraneous water	No action taken.

#### MEAT AND OTHER FOODS.

The food exposed for sale or prepared in the district has been examined from time to time. The premises and shops have been kept in a cleanly state.

#### BAKEHOUSES.

There are seven Bakehouses in the district; these are in a sanitary condition, clean and well kept; alterations and repairs have been carried out during the year.

#### ANNUAL RETURN OF FOOD POISONING NOTIFICATIONS (CORRECTED).

1. <i>Local Authority</i>	Litherland, Liverpool, 21, Lancs. Year 1952.						
2. <i>Food Poisoning Notifications (Corrected) Returned to R.G.</i>	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total		
	Nil	...	Nil	...	Nil	...	1

#### 3. *Outbreaks Due to Identified Agents.*

Total Outbreaks

Total Cases

\*Outbreaks due to:—

(a) Chemical Poisons

(d) C.I. botulinum

(b) Salmonella Organisms

(e) Other bacteria

(c) Staphylococci (including toxin)

#### 4. *Outbreaks of Undiscovered Cause.*

Total Outbreaks

Total Cases

#### 5. *Single Cases.*

Agent identified Salmonella organisms

Total 1

\*Details of each outbreak to be given in Appendix D (II).

### 6.—Prevalence of and Control over Infectious Disease.

Two hundred and thirteen cases of infectious diseases were notified, and nine were removed to Hospital (see Tables of Notifiable Diseases).

#### DIPHTHERIA IMMUNIZATION.

Immunization against Diphtheria was taken over by the County Council on July 5th, 1948. Monthly immunization sessions are held at the County Clinic, Sefton Avenue, Litherland; 293 cases were completed during the year, each receiving injections of A.P.T. or T.A.F. Immunization is also carried out in the schools in the district regularly.

Immunization against Diphtheria commenced on 17th May, 1935; during this period 6,164 cases have been immunized in the district.

There were no cases of diphtheria notified during the year.

### SCARLET FEVER.

There were nine cases of Scarlet Fever during the year, a decrease of ten on last year; there were no deaths from this disease, which continues to be a mild disease.

### MALARIA.

One case was notified during the year (contracted abroad).

### TYPHOID FEVER (INCLUDING PARA-TYPHOID).

There were no cases of Typhoid or Para-Typhoid during the year.

### TUBERCULOSIS.

There were forty-three new cases of Respiratory Tuberculosis and two new cases of Non-Respiratory notified during the year, this shows an increase of fourteen respiratory cases over last year. There were twelve deaths from respiratory cases and one death from non-respiratory cases, showing an increase of two respiratory deaths and one non-respiratory death. No action has been necessary in respect of Tuberculous employees in the Milk Trade or to Section 62 Public Health Act 1925, for removal to Hospital of infectious persons suffering from Pulmonary Tuberculosis.

### MEASLES.

Measles show a decrease during the year 175 cases being notified as against 379 in 1951; there was one death due to Measles, but it still continues to be one of the serious infectious diseases of childhood.

### WHOOPING COUGH.

17 Cases were notified during the year, as against 134 in 1951. There were no deaths due to this disease, but it continues to be one of the serious infectious diseases of childhood.

### SCABIES.

Cases in diminishing numbers have been dealt with at home, during the year.

### GENERAL.

Vaccination sessions are held monthly at the Sefton Avenue Clinic, this work is also carried out by the General Practitioners under the National Health Service. There were 234 Primary Vaccinations performed, 213 of which were successful; 43 re-vaccinations were performed all of which were successful. It has not been necessary to close the schools during the year because of infectious disease.

There have been no reports made under Article 17(7) Sanitary Officers (Outside London) Regulations, 1935, which refers to Plague, Cholera, Smallpox or any serious outbreak of disease in the district.

### DISINFECTION.

There were 34 rooms in 26 houses disinfected during the year after Infectious Disease, including Tuberculosis. Several articles were disinfected at the Council's Disinfector (a Washington Lyons Type) situated in the Council's yard, Field Lane.

There is no arrangement for bathing verminous persons, etc. Disinfestation has been carried out at twenty-three houses.

## Notifiable Diseases, 1952.

Number of cases of Infectious Diseases notified, number of deaths from these diseases, number of cases removed to Hospital, and deaths in Hospital during the year 1952 :—

NOTIFIABLE DISEASES.	CASES NOTIFIED.											TOTAL DEATHS.	HOSPITAL	
	Total Cases at all Ages.	YEARS.											Total Cases removed to Hospital.	Deaths in Hospital of persons belonging to District.
		0	1	3	5	10	15	25	45	65 and over	ages not known			
	(a)											(b)	(c)	(d)
Smallpox...	Nil	...	...	...	...	...	...	...	...	...	...	...	...	...
Scarlet Fever ...	9	...	...	5	2	2	...	...	...	...	...	...	2	...
Diphtheria, including Membranous Croup	Nil	...	...	...	...	...	...	...	...	...	...	...	...	...
Enteric or typhoid Fever, (excluding paratyphoid)	Nil	...	...	...	...	...	...	...	...	...	...	...	...	...
Paratyphoid Fever ...	Nil	...	...	...	...	...	...	...	...	...	...	...	...	...
Measles( excluding rubella)	175	8	62	49	52	3	...	1	...	...	...	...	...	...
Whooping Cough ...	17	...	7	7	3	...	...	...	...	...	...	...	...	...
Acute pneumonia primary and influenzal	5	...	...	...	2	...	...	2	...	1	...	...	2	...
Puerperal Pyrexia ...	4	...	...	...	...	...	...	3	...	...	...	1	2	...
Meningococcal Infection	Nil	...	...	...	...	...	...	...	...	...	...	...	...	...
Acute poliomyelitis, Paralytic ...	Nil	...	...	...	...	...	...	...	...	...	...	...	...	...
Non-paralytic ...	Nil	...	...	...	...	...	...	...	...	...	...	...	...	...
Acute encephalitis, Infective ...	Nil	...	...	...	...	...	...	...	...	...	...	...	...	...
Post infectious ...	Nil	...	...	...	...	...	...	...	...	...	...	...	...	...
Dysentery ...	Nil	...	...	...	...	...	...	...	...	...	...	...	...	...
Ophthalmia neonatorum	1	1	...	...	...	...	...	...	...	...	...	...	1	...
Erysipelas ...	Nil	...	...	...	...	...	...	...	...	...	...	...	...	...
Malaria—														
Contracted in this C'try														
Abroad ...	1	...	...	...	...	...	1	...	...	...	...	...	1	...
Food Poisoning ...	1	1	...	...	...	...	...	...	...	...	...	...	1	...
Any other disease notifiable in district, e.g. —														
Chicken Pox ...	Nil	...	...	...	...	...	...	...	...	...	...	...	...	...
Any other disease (specify) ...	Nil	...	...	...	...	...	...	...	...	...	...	...	...	...
TOTALS ...	213	10	69	61	59	5	1	6	...	1	..	1	9	...



## INFECTIOUS DISEASES.

213 cases of Infectious Disease were notified during the year.

	CASES NOTIFIED									
	1952	1951	1950	1949	1948	1947	1946	1945	1944	1943
Smallpox ... ..	Nil	Nil	Nil	...	...	...	...	...	...	...
Scarlet Fever... ..	9	19	37	28	47	38	23	67	47	34
Diphtheria ... ..	Nil	Nil	Nil	1	2	16	9	26	12	23
Enteric or typhoid fever (excluding paratyphoid) ... ..	Nil	Nil	Nil	...	...	...	...	...	1	1
Paratyphoid fever ... ..	Nil	7	Nil	...	...	1	...	...	...	...
Measles (excluding rubella) ... ..	175	379	421	210	254	174	199	71	369	185
Whooping cough ... ..	17	134	140	98	10	91	71	38	111	69
Acute pneumonia (primary and influenzal) ... ..	5	8	10	2	4	2	7	16	30	27
Puerperal pyrexia ... ..	4	1	...	...	2	...	...	...	...	1
Meningococcal infection ... ..	Nil	1	Nil	...	...	...	...	...	...	...
Acute Poliomyelitis—										
Paralytic ... ..	Nil	Nil	3	2	...	2	...	...	...	...
Non-paralytic ... ..	Nil	Nil	...	...	...	...	...	...	...	...
Acute encephalitis—										
Infective ... ..	Nil	Nil	...	...	...	...	...	...	...	...
Post-infectious ... ..	Nil	Nil	...	...	...	...	...	...	...	...
Dysentery ... ..	Nil	3	Nil	4	3	1	2	2	1	...
Ophthalmia neonatorum ... ..	1	Nil	Nil	1	...	...	1	...	1	...
Erysipelas ... ..	Nil	2	1	1	1	4	2	7	8	5
Malaria—										
Contracted in England and Wales	Nil	Nil	...	...	1	...	1	...	...	...
Abroad ... ..	1	...	...	...	...	...	...	...	...	...
Food poisoning ... ..	1	Nil	...	...	...	...	...	...	...	...
Any other diseases notifiable in district, e.g.—										
Chicken Pox ... ..	Nil	Nil	...	...	...	...	1	...	...	...
Any other diseases (specify)*										
*Cerebro-spinal fever ... ..	Nil	Nil	Nil	2	3	1	...	2	1	2
Anthrax ... ..	Nil	Nil	...	...	...	...	...	...	...	1
Gastro-enteritis ... ..	Nil	Nil	...	...	2	2	...	...	...	...
	213	554	612	349	329	332	316	229	581	348

## INFECTIOUS DISEASES.

	CASES REMOVED TO HOSPITAL									
	1952	1951	1950	1949	1948	1947	1946	1945	1944	1943
Smallpox ... ..	...	...	Nil	Nil	...	...	...	...	...	...
Scarlet Fever ... ..	2	2	7	7	9	12	11	42	13	19
Diphtheria (including membranous croup) ... ..	...	...	...	1	2	20	16	36	17	23
Enteric or typhoid fever (excluding paratyphoid) ... ..	...	...	Nil	...	...	...	...	...	...	...
Paratyphoid fever ... ..	...	7	...	...	...	1	...	...	1	1
Measles (excluding rubella) ... ..	...	1	...	...	5	4	7	1	...	1
Whooping cough ... ..	...	1	...	...	2	...	3	2	1	2
Acute pneumonia (primary and influenzal) ... ..	2	1	4	2	2	1	2	...	2	...
Puerperal pyrexia ... ..	2	1	...	...	1	...	...	...	...	1
Meningococcal infection—										
Acute poliomyelitis ... ..	...	1	...	...	...	...	...	...	...	...
Paralytic ... ..	...	...	2	2	...	3	...	...	...	...
Non-Paralytic ... ..	...	...	...	...	...	...	...	...	...	...
Acute encephalitis—										
Infective ... ..	...	...	...	...	...	...	...	...	...	...
Post-infectious ... ..	...	...	...	...	...	...	...	...	...	...
Dysentery ... ..	...	...	...	3	2	1	2	2	1	...
Ophthalmia neonatorum ... ..	1	...	...	1	...	...	1	...	...	...
Erysipelas ... ..	...	1	...	...	1	2	Nil	2	4	2
Malaria (Contracted in England and Wales) ... ..	...	...	...	...	1	...	1	...	...	...
Abroad ... ..	1	...	...	...	...	...	...	...	...	...
Food poisoning ... ..	1	...	...	...	...	...	Nil	...	...	...
Any other diseases notifiable in district, e.g.—										
Chicken Pox ... ..	...	...	...	...	...	...	1	...	...	...
Any other diseases (specify)*										
*Cerebro-spinal fever ... ..	...	...	...	...	3	1	...	2	1	2
Anthrax ... ..	...	...	...	...	...	...	...	...	...	1
Gastro enteritis ... ..	...	...	...	...	2	2	...	...	...	...
	9	15	13	16	30	47	44	87	40	52

TUBERCULOSIS.  
NEW CASES AND MORTALITY DURING 1952 (Local Register).

AGE PERIODS.				NEW CASES.				DEATHS.			
				Respiratory.		Non-Respiratory.		Respiratory.		Non-Respiratory.	
				M	F	M	F	M	F	M	F
Years	0	...	...	...	...	...	...	...	...	...	...
	1	...	...	...	2	...	...	...	...	...	...
	2	...	...	1	...	...	...	...	...	...	...
	5	...	...	...	...	...	...	...	...	...	...
	10	...	...	...	...	...	...	...	...	...	...
	15	...	...	3	4	...	1	...	...	...	...
	20	...	...	1	7	...	...	...	...	...	...
	25	...	...	4	6	1	...	2	3	1	...
	35	...	...	3	4	...	...	...	...	...	...
	45	...	...	3	1	...	...	4	...	...	...
	55	...	...	2	...	...	...	1	...	...	...
	65	...	...	1	...	...	...	1	...	...	...
	75 and upwards			1	...	...	...	1	...	...	...
TOTALS				19	24	1	1	9	3	1	...
				43		2		12		1	

Tuberculosis in any particular occupation in the district.

7.—Maternity and Child Welfare.

The whole of this work is carried out by the Lancashire County Council at Sefton Avenue, Litherland.

OPHTHALMIA NEONATORUM.

This work is carried out by the Lancashire County Council; there were no cases notified during the year.

FACTORIES ACT, 1937.

Annual Report of the Medical Officer of Health in respect of the Year 1952 for the Urban District of Litherland in the County of Lancaster.

PART I OF THE ACT.

1.—INSPECTIONS for purposes of provisions as to health (including inspections made by Sanitary Inspectors).

Premises (1)	M/c line No. (2)	Number on Register (3)	Number of			M/c line No. (7)
			Inspections (4)	Written notices (5)	Occupiers prosecuted (6)	
(i) Factories in which Sections 1, 2, 3, 4 and 6 are to be enforced by Local Authorities ...	1	19	70	Nil	Nil	1
(ii) Factories not included in (i) in which Section 7 is enforced by the Local Authority ... ..	2	60	180	Nil	Nil	2
(iii) Other Premises in which Section 7 is enforced by the Local Authority † (excluding out-workers' premises) ... ..	3	4	9	Nil	Nil	3
TOTAL ... ..		83	259	Nil	Nil	

## 2.—Cases in which DEFECTS were found.

(If defects are discovered at the premises on two, three or more separate occasions, they should be reckoned as two, three or more "cases.")

Particulars  (1)	M/c line No.  (2)	Number of cases in which defects were found				Number of cases in which prosecutions were instituted (7)	M/c line No.  (8)
		Found  (3)	Remedied  (4)	Referred			
				To H.M. Inspector  (5)	By H.M. Inspector  (6)		
Want of cleanliness (S.1) ... ..	4	4	4	Nil	Nil	Nil	4
Overcrowding (S.2) ... ..	5						5
Unreasonable temperature (S.3) ...	6						6
Inadequate ventilation (S.4) ...	7	4	4	Nil	Nil	Nil	7
Ineffective drainage of floors (S.6)	8	11	11	Nil	Nil	Nil	8
Sanitary Conveniences (S.7)							
(a) insufficient ... ..	9						9
(b) Unsuitable or defective ...	10						10
(c) Not separate for sexes ...	11	11	11	Nil	Nil	Nil	11
Other offences against the Act (not including offences relating to Outwork) ... ..	12	18	18	Nil	Nil	Nil	12
TOTAL ... ..	72	48	48	Nil	Nil	Nil	72

## PART VIII OF THE ACT. OUTWORK (Sections 110 and 111).

Nature of Work (1)	M/c line No. (2)	Section 110			Section 111			M/c line No. (9)
		No. of out- workers in August list required by Sect. 110 (1) (c) (3)	No. of cases of default in sending lists to the Council (4)	No. of prosecu- tions for failure to supply lists (5)	No. of instances of work in unwhole- some premises (6)	N'tices served (7)	Prose- cutions (8)	
Wearing apparel { Making, etc. ... ..	13	3	Nil	Nil	Nil	Nil	Nil	13
	14							14
TOTAL ... ..	70	3	...	...	...	...	...	70



# The Urban District Council of Litherland.

## ANNUAL REPORT

OF THE

## Sanitary Inspector.

## 1952.

August, 1953.

To THE CHAIRMAN AND MEMBERS  
OF THE HEALTH COMMITTEE.

Lady/Gentlemen,

I beg to submit the Annual Report of the work executed in 1952, together with the particulars of the nuisances abated, and improvements effected thereby. There is still a shortage of essential building materials which often cause delay in compliance with notices. Difficulty in getting repairs completed owing to increased costs is also being experienced.

A very serious nuisance was dealt with during the year caused by cats and dogs having access to the whole of a large semi-detached house, without proper control and soiling the whole of the premises; there were nine cats, seven kittens, two dogs and five pups, twenty-three animals in all. The house was owner-occupied and considerable opposition was experienced in remedying the nuisance. The R.S.P.C.A. Officer was called in and he reported that the cats were verminous.

Arrangements were made through the legal representative of the occupier for all except the two dogs to be removed.

### INSPECTION OF THE DISTRICT, NOTICES SERVED, Etc.

During the year 4,988 inspections and re-inspections were made in reference to complaints and housing.

It was necessary in numerous instances, however, to interview and write to the persons concerned, drawing their attention to notices which had not received prompt attention.

There were 1,887 Informal Notices and letters, etc., referring to nuisances and general dilapidations served, and in due course complied with.

No Abatement Notices were served during the year, the work having been complied with before the notice was due to be served.

SCHOOLS.—W.C. accommodation and water supply has been inspected during the year.

INSPECTION OF THE FOOD SUPPLY.—The food exposed for sale in the district has been inspected from time to time. Meat shops and food preparing places are inspected periodically.

Handling of unwrapped food is still prevalent despite advice and propaganda.

SLAUGHTER-HOUSES.—There is one “ private ” slaughter-house within the district; there was no slaughtering during the year.

LITHERLAND HYGIENIC FOOD GUILD.—The above Guild was formed in January, 1950.

Membership consists of Food Traders, Members of the Rate-payers’ and Tenants’ Association, Townswomen’s Guild and Other Organisations in the district. Talks and Film Shows on Hygiene have been given during the year. A display set of twelve posters on “ Food Poisoning ” obtained from the Central Office of Information, London, have been pasted on to cardboard and have been distributed on loan for short periods to Food Manufacturers, Canteens, Schools, etc. Visits have been made to Food Factories, and Milk Depots.

Plaques are provided for members whose shops comply with the “ Codes of Practice ” laid down by the Guild. Badges and brooches have been provided for the staffs of the shops which comply with the “ Codes of Practice.” Whist drives and dances have been and are being held, to provide funds for the purchase of the plaques, badges, etc.

#### INSPECTION OF MEAT:—

Food condemned as unfit for human consumption:—

1 Ton. 5 cwts. 0 qrs. 7 lbs.

DAIRIES, COWSHEDS AND MILKSHOPS.—Number of dairies on register, 4; number of shops other than dairies selling milk, 25; 30 visits were made during the year. On the whole, a fairly high standard of cleanliness is maintained.

Nine supplementary licences were issued to retail:—

“ Tuberculin Tested ” Milk.

Five licences were issued for “ Pasteurized ” Milk and nineteen for “ Sterilized ” Milk.

There are no cows kept in the district, one cowkeeper had five cows last year, these have now been sold and removed.

#### BACTERIOLOGICAL SAMPLES.

MILK SAMPLES.—Ten samples were submitted for examination. The Bacteriologist report shows that six samples were satisfactory to the “ Methylene Blue Test ” and one unsatisfactory; that seven samples were satisfactory to the “ Phosphatase Test ” and that three were satisfactory to the Turbidity test.

ICE CREAM SAMPLES.—Twelve samples of ice cream were sent for “ Bacteriological Examination ”; the report showed the following Provisional Grades:—Five in Grade 2; Six in Grade 3; and one in Grade 4.

FOOD AND DRUGS SAMPLES.—Ten samples of milk were taken under the Food and Drugs Act, 1938-1950; all samples were reported “ Genuine.”



FISH FRYING SHOPS AND WET FISH SHOPS.—Eighteen visits were paid to fish frying shops and wet fish shops, which were maintained in a generally satisfactory condition.

SMOKE ABATEMENT.—Visits have been made where black smoke and grit have been excessive; interviews between engineers and stokers have taken place and advice given. Complaints of obnoxious fumes from a factory received attention; this factory is now installing a special plant to eliminate the fumes, etc.

REFUSE COLLECTION.—This work is carried out under the supervision of the Sanitary Department; three gangs, with three vehicles are used.

The fleet comprises two Paxits and one Low Loader. Gullies are emptied by a mechanically operated gully-emptyer, also by hand.

One hundred and seventy-four new refuse bins were provided during the year.

ERADICATION OF BED BUGS.—Twenty-three houses were disinfested during the year by means of spraying with Zaldecide and D.D.T., and sulphur candles. Clothing and bedding were taken to the Council's steam Disinfector. The whole of this work is carried out by the Council's workmen.

One hundred and thirty-one houses were disinfested for cockroaches, fleas, ants, earwigs and woodworm. They were treated with Zaldecide and D.D.T. successfully. Snails in the back passages were treated with salt. Gammexane powder has also been used with good results.

Two dead dogs and one dead cat were removed during the year.

BEEES.—A swarm of bee's was reported in a front garden during July, a local Bee keeper was called in, who dealt with the nuisance and removed the bee's.

#### PREVENTION OF DAMAGE BY PESTS ACT, 1949.—

This work has been carried out in accordance with the Ministry of Agriculture and Fisheries direction.

PROPERTIES INSPECTED	...	...	...	501
Local Authority	...	...	...	32
Private Dwellings	...	...	...	352
Business Premises	...	...	...	117



INFESTED PROPERTIES TREATED	...	...	243
Local Authority	...	...	20
Private Dwellings	...	...	184
Business Premises	...	...	39

SEWERS.—Two sewer treatments, including test-baiting, were carried out during the year (i.e.) March and September, in accordance with the Ministry's instructions. An Inspector of the Ministry visited the district whilst treatment was in progress, and satisfied himself that the work was carried out as directed by the Ministry, thus enabling the Local Authority to receive assistance.

A summary of treatments, and destruction of rodents, is as follows:—

	<i>Treatments.</i>		<i>Destruction (approx.)</i>	
	<i>Rats.</i>	<i>Mice.</i>	<i>Rats.</i>	<i>Mice.</i>
Private Dwellings	56	128	132	801
Business Premises	16	24	68	437
Council Property including Allotments & Building Sites	9	11	74	207
Sewers	2	—	57	—
Totals	83	163	331	1,445

Council Property receiving treatment included the Town Hall, Field Lane Flats and the Salvage Depot. All infestations were of a minor degree.

COUNCIL HOUSING ESTATES.—A survey and inspection of poultry runs on the Council Estates was carried out during the year, 34 Tenants were keeping Hens or Pigeons, no rodent infestations were found. A decrease in the number of poultry runs has been recorded.

Infestations notified	...	...	155
Infestations found on inspection	...	...	91
Total	...	...	246

TENTS, VANS AND SHEDS.—There is no recognised camping site in the district, a large portion of the open space between Hawthorne Road and Orrell Road which was used chiefly by the caravan dwellers is now being built on, thus preventing the nuisance caused by these people.

SUPERVISION OF INFECTIOUS DISEASES.—Twenty-two visits were paid to houses where Infectious Diseases had occurred and the necessary enquiries made into each case, also a sanitary survey was made of the premises, notices served where necessary for various defects, and work was carried out, and 8 re-visits were paid to ensure that the work was carried out. The schools have been thoroughly disinfected during the year. The head teachers have been notified

regarding children attending the schools where infectious disease had occurred, also after disinfection.

FACTORIES ACT, 1937 and 1948.—Two hundred and fifty-nine visits and re-visits were made to factories during the year. Repairs to W.C.'s, drains, water supply, floors, ventilation cleansing and rain-water pipes, etc., have been carried out during the year. The larger factories find employment for approximately 3,095 persons.

OUTWORKERS.—Visits were made to premises where outworkers were engaged; the premises were found to be satisfactory.

### SALVAGE.

WASTE FOOD.—During the year 6 tons 2 cwts. 2 qrs. of food was collected and disposed of to pig dealers.

WASTE PAPER.—50 tons 12 cwts. 0 qrs. was baled and sold for pulping.

MISCELLANEOUS.—During the year 14 tons 8 cwts. 1 qr. of Metal, Rags, Sacking, were collected and disposed of.

### SUMMARY OF WORK OF DEPARTMENT.

Number of inspections and re-inspections (complaints and housing) ... ..	4988
Number of visits and re-visits to factories ... ..	259
Number of visits to bakehouses ... ..	16
Number of visits to dairies and milkshops, etc. ... ..	30
Number of informal notices served and letter, etc. ... ..	1887
Number of visits to offensive trades ... ..	6
Samples of milk submitted for bacteriological examination ...	10
Samples of ice cream submitted for bacteriological examination	12
Samples of milk taken under Food and Drugs Act ... ..	10
Cases of infectious disease visited and reported upon ... ..	22
Number of houses disinfected ... ..	26
Number of rooms disinfected ... ..	34
Number of verminous houses disinfested for bugs ... ..	23
Number of verminous houses disinfested for other insects etc. ...	131
Number of visits to fish frying shops and wet fish shops ...	18
Number of visits to butchers' shops, food preparing places, ice cream premises and food hawkers, etc. ... ..	380
Number of visits to slaughter-house ... ..	2
Number of visits to schools ... ..	20
Number of visits to Tents, Vans and Sheds ... ..	83
Number of visits to stable premises and garages ... ..	27
Rent Books inspected ... ..	36

## DETAILS OF SANITARY IMPROVEMENTS AND ABATEMENT OF NUISANCES.

Drains tested, repaired or renewed	...	...	...	...	335
Defective w.c. cisterns, pans, traps, water supply, etc.	...	...	...	...	368
Staircases repaired	...	...	...	...	35
Defective water supply to houses, etc., new taps, burst pipes, etc.	...	...	...	...	244
Defective floors in dwelling houses, etc.	...	...	...	...	146
Offensive accumulations	...	...	...	...	10
New ashbins provided	...	...	...	...	174
Insanitary yard surfaces	...	...	...	...	145
Walls and chimneys pointed and repaired	...	...	...	...	523
Defective eaves, gutters, R.W. pipes, etc.	...	...	...	...	359
New back boilers, storage cisterns and cylinders provided or repaired	...	...	...	...	41
Defective skirting boards repaired	...	...	...	...	15
Defective plasterwork and limewashing, etc.	...	...	...	...	319
Repairs to window sashes and frames, and lighting and ventilation improved	...	...	...	...	312
Leaky roofs (dwelling houses, et.)	...	...	...	...	540
New doors and repairs to doors	...	...	...	...	230
Animals and Fowls kept to be a nuisance	...	...	...	...	6
Defective wash boilers and structures	...	...	...	...	5
New sinks and other sanitary fittings	...	...	...	...	90
Defective fire ranges, jambs, and flues	...	...	...	...	119
Defective drainer boards	...	...	...	...	11

### FACTORIES ACT, 1937 and 1948.

Want of cleanliness...	...	...	...	...	4
Ineffective drainage of floors	...	...	...	...	11
Defective sanitary conveniences and insufficient	...	...	...	...	11
Other defects (burst pipes, walls, etc.)	...	...	...	...	18
Inadequate ventilation	...	...	...	...	4

I am, Gentlemen,

Your obedient Servant,

H. HARRISON,

*Chief Sanitary Inspector.*





